MATH-236	Probability and sta	tistics II			
	Goldstein Darlene				
Cursus		Sem.	Туре	Languago of	English

			English
BA6	Opt.	teaching	
BA4 Obl. Credits Session		4 Summer	
		Semester	Spring
		Exam	Written
		Workload	120h
		Weeks	14
		Hours	4 weekly
		Courses	2 weekly
		Exercises	2 weekly
		•	BA4 Obl. Credits Session Semester Exam Workload Weeks Hours Courses

#### Summary

Linear statistical methods, analysis of experiments, logistic regression.

## Content

- Simple linear regression, least squares estimation
- t-tests, confidence intervals
- Multiple regression
- Model selection
- Experimental designs
- One-way, two-way ANOVA
- Chi-square test
- Logistic regression

#### Learning Outcomes

By the end of the course, the student must be able to:

- Demonstrate understanding of course material
- Apply understanding to exercise/real life scenarios

## **Transversal skills**

• Use a work methodology appropriate to the task.

#### Teaching methods

Lectures and group exercises

#### **Expected student activities**

Students should be prepared to participate in their learning by participating during lecture, asking questions, and contributing to exercise sessions

# Assessment methods Written

EPFL

Number of positions

# Ressources en bibliothèque

• Introduction à la statistique / Morgenthaler